

Name _____

Study Guide: Arthropods and Annelids

Note: Also study the labeled insect diagrams.

1. The name arthropod literally means _____.
2. What is an exoskeleton?
3. Centipedes belong to the class _____ and millipedes belong to the class _____.
4. An example of a crustacean would be a/an _____ and an example of an arachnid would be a/an _____.
5. The largest order of insects is the _____, but the largest insect that ever lived was the _____, an ancient dragonfly.
6. Name an insect that harms humans in some way and one that helps humans, and EXPLAIN how.
7. Insects have _____ pairs of jointed legs and a three-part body that consists of a _____, _____, and _____.
8. The order Lepidoptera consists of _____ and means _____.
9. The order Orthoptera consists of _____ and means _____.
10. The change in form or structure of insects as they proceed through their life cycle is known as _____, and the pupal stage during which larval structures are broken down and adult structures are formed is known as a _____.

11. Give the correct order for the life cycle of a cabbage white butterfly.

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12. A body plan with 2 similar halves has _____ symmetry. The “head” end of the organism is called the _____ end, and the “tail” end is called the _____ end.

13. In annelids, the _____ stores food, the _____ grinds food, and the _____ help to get rid of wastes.

14. Earthworms have _____ pairs of hearts. Their well developed nervous system includes a group of nerve cells called _____, which is also referred to as the brain.

15. Where do blackworms live? BE SPECIFIC

16. Explain how a blackworm moves. BE SPECIFIC

17. In earthworms, the _____ muscles contract to make the worm long and thin, while the _____ muscles contract to make the worm short and fat.

18. Tiny hairs on each segment of an earthworm that act like anchors to aid in movement are called _____. The bulge around an earthworm’s center that is used for reproductive purposes is the _____.

19. Explain how earthworms help the soil.

20. The scientific name of a blackworm is _____,
and the scientific name of an earthworm is _____.